

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(fraction near5 (exhaust near3 gas\$2)) and (clos\$4 near3 cylinder\$1) and (compress\$3 near3 air) and (stratificat\$3 near3 temperature\$1) and (fuel near3 (vaporiz\$3 or vapouriz\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:14
L2	0	(fraction near5 (exhaust near3 gas\$2)) and (clos\$4 near3 cylinder\$1) and (compress\$3 near3 air) and (stratificat\$3 near3 temperature\$1) and (fuel near3 (vapor\$5 or vapour\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:14
L3	0	(fraction near5 (exhaust near3 gas\$2)) and (compress\$3 near3 air) and (stratificat\$3 near3 temperature\$1) and (fuel near3 (vapor\$5 or vapour\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:14
L4	0	( (exhaust near3 gas\$2) near5 cylinder\$1) and (compress\$3 near3 air) and (stratificat\$3 near3 temperature\$1) and (fuel near3 (vapor\$5 or vapour\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:15
L5	0	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and (fuel near3 (vapor\$5 or vapour\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:16
L6	13	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:16
L7	0	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and (stratificat\$3 near3 concentration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:17

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L8	0	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and (stratificat\$3 near3 concentration\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 11:12
L9	0	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and (stratificat\$3 near5 concentration\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:17
L10	11	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and concentration\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:19
L11	62	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 and temperature\$1) and fuel and concentration\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:18
L12	11	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and concentration\$1 and (fraction or ratio)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:20
L13	11	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and concentration\$1 and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:30
L14	0	( fraction near5 ((exhaust near3 gas\$2) near5 cylinder\$1)) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and concentration\$1 and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:23

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L15	0	( fraction same((exhaust near3 gas\$2) near5 cylinder\$1)) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and concentration\$1 and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:21
L16	0	( ratio\$1 near5 ((exhaust near3 gas\$2) near5 cylinder\$1)) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and concentration\$1 and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:23
L17	0	( amount near5 ((exhaust near3 gas\$2) near5 cylinder\$1)) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and concentration\$1 and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:24
L18	0	( quantity near5 ((exhaust near3 gas\$2) near5 cylinder\$1)) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and (stratificat\$3 near3 temperature\$1) and fuel and concentration\$1 and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:24
L19	11	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and ((stratificat\$3 or stratif\$4) near3 temperature\$1) and fuel and concentration\$1 and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 07:31
L20	17	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and ((stratificat\$3 or stratify or stratifying or startified or form\$3 or diposit\$3 or arrang\$3) near3 temperature\$1) and fuel and (concentration\$1 or (residual near3 mass)) and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 08:17

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L21	0	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and ((stratificat\$3 or stratify or stratifying or startified or form\$3 or diposit\$3 or arrang\$3) near3 temperature\$1) and ((evaporiz\$3 or evapouriz\$3) near3 fuel ) and (concentration\$1 or (residual near3 mass)) and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 08:26
L22	16	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and ((stratificat\$3 or stratify or stratifying or startified or form\$3 or diposit\$3 or arrang\$3) near3 temperature\$1) and (heat\$3 near3 fuel) and (concentration\$1 or (residual near3 mass)) and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 08:18
L23	0	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and ((stratificat\$3 or stratify or stratifying or startified or form\$3 or diposit\$3 or arrang\$3) near3 temperature\$1) and ((evaporiz\$3 or evapouriz\$3) near10 fuel ) and (concentration\$1 or (residual near3 mass)) and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 08:26
L24	12	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and ((stratificat\$3 or stratify or stratifying or startified or form\$3 or diposit\$3 or arrang\$3) near3 temperature\$1) and ((vaporiz\$5 or vapouriz\$5) near10 fuel ) and (concentration\$1 or (residual near3 mass)) and fraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 10:53
L25	24	("6276334").URPN.	USPAT	OR	OFF	2006/02/24 08:28
L26	11	( (exhaust near3 gas\$2) near5 cylinder\$1) and ((compress\$3 or supercharg\$3 or turbocharg\$3 or charg\$3 or boost\$3) near3 air) and ((stratificat\$3 or stratify or stratifying or startified or form\$3 or diposit\$3 or arrang\$3) near3 temperature\$1) and ((vaporiz\$5 or vapouriz\$5) near10 fuel ) and (concentration\$1 or (residual near3 mass)) and fraction and ("EGR" or "exhaust gas recirculation")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 12:12

## EAST Search History

L27	1600	("EGR" or "exhaust gas recirculation") and (turbo or turbocharg\$3 or supercharg\$3) and (fuel near3 inject\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 12:14
L28	460	(turbo or turbocharg\$3 or supercharg\$3) and ((fuel near3 inject\$3) near5 ("EGR" or "exhaust gas recirculation"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 12:19
L29	236	(turbo or turbocharg\$3 or supercharg\$3) and ((fuel near3 inject\$3) near5 ("EGR" or "exhaust gas recirculation")) and mix\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 12:19
L30	8	(turbo or turbocharg\$3 or supercharg\$3) and ((fuel near3 inject\$3) near5 ("EGR" or "exhaust gas recirculation")) and mix\$3 and (ignit\$3 near5 (timing near3 valve\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 12:52
L31	44	(turbo or turbocharg\$3 or supercharg\$3) and ((fuel near3 inject\$3) and ("EGR" or "exhaust gas recirculation")) and (ignit\$3 near5 (timing near3 valve\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:07
L32	0	(turbo or turbocharg\$3 or supercharg\$3) and ((fuel near3 inject\$3) and ("EGR" or "exhaust gas recirculation")) and ((ignit\$3 near3 point) near5 (timing near3 valve\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 12:53
L33	43	(turbo or turbocharg\$3 or supercharg\$3) and ((fuel near3 inject\$3) and ("EGR" or "exhaust gas recirculation")) and (ignition near5 (timing near3 valve\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:08
L34	12	(turbo or turbocharg\$3 or supercharg\$3) and ((fuel near3 inject\$3) and ("EGR" or "exhaust gas recirculation")) and (ignition near5 (temperature near5 ("EGR" or "exhaust gas recirculation")))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:31

## EAST Search History

L35	0	(turbo or turbocharg\$3 or supercharg\$3) and ((fuel near3 inject\$3) and ("EGR" or "exhaust gas recirculation")) and (ignition near5 (temperature near5 (external near3 ("EGR" or "exhaust gas recirculation")))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:27
L36	14	(turbo or turbocharg\$3 or supercharg\$3) and (ignition near5 (temperature near5 ("EGR" or "exhaust gas recirculation"))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:35
L37	0	JP-200064863-a\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:35
L38	2	JP-2000064863-a\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 13:35
L39	3	((flat near3 (cylinder\$1 near3 head)) same (bearing near3 valve\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:23
L40	11	((flat near3 (cylinder\$1 near3 head)) and (bearing near3 valve\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:13
L41	0	((flat near3 (cylinder\$1 near3 head)) same (bearing near3 valve\$1)) and (conicla near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:18
L42	0	((flat near3 (cylinder\$1 near3 head)) and (bearing near3 valve\$1)) and (conicla near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:18

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L43	0	((flat near3 (cylinder\$1 near3 head)) same (bearing near3 valve\$1)) and (conical near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:19
L44	0	((flat near3 (cylinder\$1 near3 head)) same (bearing near3 valve\$1)) and (cone near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:19
L45	0	((flat near3 (cylinder\$1 near3 head)) and (bearing near3 valve\$1)) and (cone near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:19
L46	0	((flat near3 (cylinder\$1 near3 head)) and (valve\$1)) and (cone near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:19
L47	17	((flat near3 (cylinder\$1 near3 head)) and (valve\$1)) and (conical near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:20
L48	15054	(bearing near3 valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:23
L49	636	(bearing near3 valve\$1) and (conical near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:23
L50	53	(bearing near3 valve\$1) and (conical near3 seat\$1) and (angle\$1 near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:24

## EAST Search History

L51	11	(bearing near3 valve\$1) and (conical near3 seat\$1) and (angle\$1 near3 seat\$1) and nozzle\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:26
L52	0	(bearing near3 valve\$1) and (conical near3 seat\$1) and (angle\$1 near3 seat\$1) and (oblong near3 nozzle\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:24
L53	7	(bearing near3 valve\$1) and (conical near3 seat\$1) and (angle\$1 near3 seat\$1) and nozzle\$1 and cylinder\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:25
L54	53	(bearing near3 valve\$1) and (conical near3 seat\$1) and (angle\$1 near3 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:27
L55	3296	123/90.1-90.67.ccls. and (bearing\$1 same valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:29
L56	1003	123/90.1-90.67.ccls. and (bearing\$1 near5 valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:29
L57	64	123/90.1-90.67.ccls. and "bearing valve"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:48
L58	0	123/90.1-90.67.ccls. and "bearing valve" and (angle near5 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:34



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L59	45	123/90.1-90.67.ccls. and (angle near5 seat\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:40
L60	0	123/90.1-90.67.ccls. and (angle near5 seat\$1) and stratification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:40
L61	31	123/90.1-90.67.ccls. and stratification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:40
L62	31	123/90.1-90.67.ccls. and stratification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:12
L63	0	123/90.1-90.67.ccls. and "bearing valve" and stratification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:48
L64	10	123/90.1-90.67.ccls. and stratification and bearing\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 14:49
L65	22	"2715895"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:12
L66	13	"2751895"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:13

## EAST Search History

L67	4	"2751895" and bearing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:22
L68	3	((("conical bearing" near3 seal\$3) near10 valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:23
L69	21	((((conical near5 bearing) near3 seal\$3) near10 valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:25
L70	0	123/90.1-90.67.ccls. and (((conical near5 bearing) near3 seal\$3) near10 valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:25
L71	14	123/90.1-90.67.ccls. and (( bearing near3 seal\$3) near10 valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 15:28
L72	11	123/90.1-90.67.ccls. and (( conical near5 seal\$3) near10 valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 16:08
L73	0	("6766778").URPN.	USPAT	OR	OFF	2006/02/24 15:31
L74	6	123/90.1-90.67.ccls. and ((( diametrical or diametrically) near5 (intake or inlet)) near10 valve\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/24 16:09